SYLLABUS

MA 3232 (4-0) Numerical Analysis

Text(s): Gerald and Wheatley, **Applied Numerical Analysis**, 6th Ed.

Hours	Topics	Pages
3 - 3	Floating Point Arithmetic and Computational Errors	1-6,15-32, Notes
6 - 9	Solution of Nonlinear Equations	38-87, 174-178
3 - 12	Stability and Condition	Notes
7 - 19	Interpolating Polynomials, Splines, Least Squares, Rational Approximation	220-248, 275-280, Notes
8 - 27	Numerical Differentiation and Quadrature	354-387, 389-398, 421-427
11 - 38	Numerical Solution of Ordinary Differential Equations	448-477, 482-493, 525-540, 568-569, 652-668
6 - 44	Review, Exams and Holidays	

The above schedule is suggested; actual times spent on the various topics may vary somewhat. All topics will be covered, although not every referenced page will be.

9/03
Zh